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60,246-242; 10,575 Attorney Docket No. UTILITY PATENT APPLICATION Lifson First Inventor Refrigerant Cycle With Operating... TRANSMITTAL Title

(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No. EV221421980US				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450				
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 14] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS				
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 1] 5. Oath or Declaration [Total Sheets 3] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76	9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other: Certificate.of. Express. Mail				
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.					
	DENCE ADDRESS				
Customer Number: 026096	OR Correspondence address below				
Name Theodore W. Olds					
Address Carlson Gaskey & Olds, P.C. 400 West Maple Road, Suite 350	State MI Zip Code 48009				
. Diffinglian	State MI Zip Code 48009 Telephone 248-988-8360 Fax 248-988-8363				
Gritted States of America	240-900-0303				
Name (Print/Type) Theodore W. Olds Signature	Registration No. (Attorney/Agent) 33,080 Date October 28, 2003				

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/17 (01-03) Approved for use through 04/30/2003. OMB 0651-0032

October 28, 2003

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FEE	TRA	AN	SM	IT	TAL
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Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

Signature

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spond to a collection of information unless it displays a valid control harriber.				
Complete if Known				
Application Number				
Filing Date	Herewith			
First Named Inventor	Lifson			
Examiner Name				
Art Unit				
Attorney Docket No.	60.246-242: 10.575			

Attorney Docket No. 100,240-242, 10,075					
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)				
Check Credit card Money Other None	3. ADDITIONAL FEES				
Deposit Account:	Large Entity	Small En	ntity		
Deposit	Fee Fee Code (\$)	Fee Fee Code (\$)		Fee Description	Fee Paid
Account 03-0835	1051 130		-	Surcharge - late filing fee or oath	Fee Faid
Number Deposit	1052 50			Surcharge - late provisional filing fee or	
Account Name Carrier			•	cover sheet	····
The Commissioner is authorized to: (check all that apply)	1053 130			Non-English specification	
Charge fee(s) indicated below Credit any overpayments	1812 2,520	1812 2,5		For filing a request for ex parte reexamination	
Charge any additional fee(s) during the pendency of this application	1804 920*	1804 9		Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee	1805 1,840*	1805 1,8		Requesting publication of SIR after Examiner action	
to the above-identified deposit account.	1251 110	2251		Extension for reply within first month	
FEE CALCULATION	1252 410			Extension for reply within second month	
1. BASIC FILING FEE Large Entity Small Entity	1253 930	2253 4	465	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid	1254 1,450	2254 7	725	Extension for reply within fourth month	
Code (\$) Code (\$)	1255 1,970	2255 9		Extension for reply within fifth month	
1001 750 2001 375 Utility filing fee 770.00	1401 320			Notice of Appeal	
1002 330 2002 165 Design filing fee	1402 320			Filing a brief in support of an appeal	
1003 520 2003 260 Plant filing fee	1403 280			Request for oral hearing	
1004 750 2004 375 Reissue filing fee	1451 1,510			Petition to institute a public use proceeding	
1005 160 2005 80 Provisional filing fee	1452 110	2452		Petition to revive - unavoidable	
SUBTOTAL (1) (\$) 770.00	1453 1,300			Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1,300			Utility issue fee (or reissue)	
Fee from Ext <u>ra Claim</u> s <u>below</u> <u>Fee Paid</u>	1502 470			Design issue fee	
Total Claims 14 -20** = X 18 = 0	1503 630			Plant issue fee	
Independent 3 - 3** = X 84 = 0	1460 130		130	Petitions to the Commissioner	
Multiple Dependent	1807 50	1807	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806 180	1806		Submission of Information Disclosure Stmt	
Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	8021 40	8021	ا ۱۸	Recording each patent assignment per	40.00
1202 18 2202 9 Claims in excess of 20	1809 750	2809 :		property (times number of properties) Filing a submission after final rejection	
1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid	1010 750	0040		(37 CFR 1.129(a))	
1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 ** Reissue independent claims	1810 750	2810		For each additional invention to be examined (37 CFR 1.129(b))	
over original patent	1801 750	2801	375	Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900	1802		Request for expedited examination of a design application	
	Other fee (sp	ecify)			
SUBTOTAL (2) (\$) 0.00 *Reduced by Basic Filing Fee Paid CURTOTAL (2) (5) 40.00				,	
SUBMITTED BY	Registra	tion No.		(Complete (if applicable)	
Name (Print/Type) Theodore W. Olds ////			33.0	180 Telephone (248) 988-83	

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UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Lifson

Serial No.:

Unknown

Filed:

Herewith

Title:

Refrigerant Cycle With Operating Range Extension

EXPRESS MAIL CERTIFICATE

"Express Mail" Label Number: EV221421980US

Date of Deposit:

October 28, 2003

I hereby certify that the attached documents or fees are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to "Mail Stop Patent Applications, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Laura Combs

(Typed or printed name of person mailing paper or fee)

SN09612743